

**SUPPLEMENTAL INFORMATION TO GEN-05-ASAM-02**  
**Updated Information on Night Vision Devices (NVD)**

**NEW DIOPTER SCOPE ASSEMBLY AND USE PROCEDURES**  
**&**  
**MONOCULAR HOUSING ASSEMBLY VACUUM LEAK REPAIR**

**NEW DIOPTER SCOPE ASSEMBLY AND USE PROCEDURES**

The current Diopter Scope Assembly (PN 5003246 NSN 6650-01-151-4217) has been discontinued and will be replaced by a new Diopter Scope Assembly under the same NSN, 6650-01-151-4217. Since it will take several months to set up the new assembly in the Army Supply System, PM Sensor and Lasers has created the following instructions for the field to make and use the new Diopter Scope Assembly.

**Parts List**

Item 1 - Takahashi 5x25mm Finder Scope. Takahashi Part Number TVF5250. Approximate cost \$100.00.

Suggested source of supply: Texas Nautical Repair Company  
3110 South Sheppard Drive  
Houston TX 77098  
www.lsstnr.com  
713-529-3551.

Item 2 - 30MM Ring Mount. Part Number 38-513. Approximate cost \$30.00.

Suggested Source of Supply: Edmund Industrial Optics  
100 East Gloucester Pike  
Barrington, NJ 08007-1380  
www.edmundoptics.com  
856-573-6250.

Item 3 - Wing Screw, 1/4-20, 5/8" long. Part Number 91510A149. Approximate cost \$8.00.

Suggested Source of Supply: McMaster-Carr  
600 County Line Rd  
Elmhurst, IL 60126-2081  
www.mcmaster.com  
630-600-3600

Item 4 - Label approximately 1" X 2" self-adhesive, white.

**SUPPLEMENTAL INFORMATION TO GEN-05-ASAM-02**  
**Updated Information on Night Vision Devices (NVD)**

Item 5 - Adhesive tape, clear, larger than the label (Item 4) - OR - MIL-V-173 clear varnish, NSN 5970-00-832-6950 at \$15.00- OR - clear finger nail polish, available locally.

**Tools:** Screwdriver from either TK-105/G, NSN 5180-00-610-8177 or TK-105A/G, NSN 5180-01-460-9328, Tool Kit.

**Assembly Instructions**

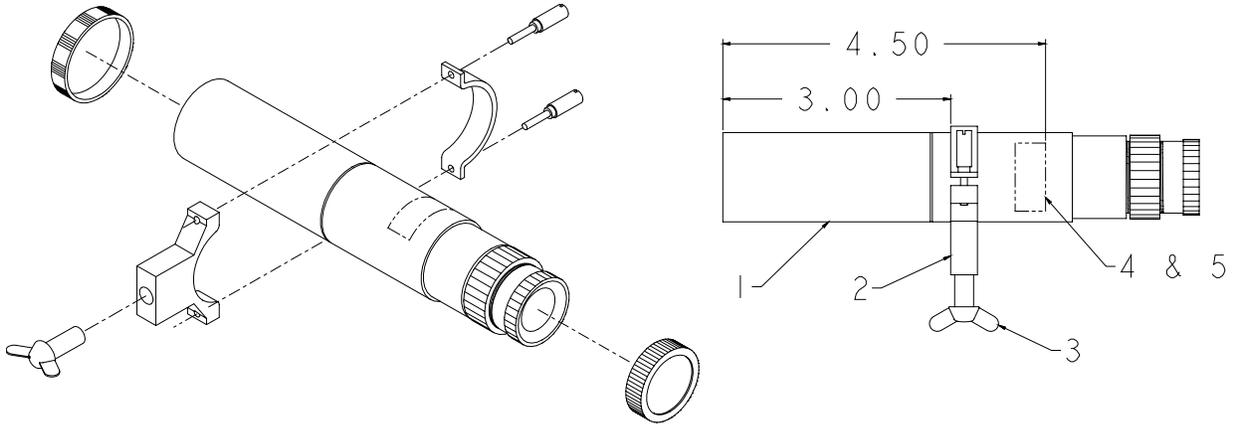


Figure 1: Assembling the Diopter Scope Assembly  
(Lens caps of right view not shown for clarity)

1. Remove pre-existing labels on Scope.
2. Attach the Ring Mount (Item 2) to the Finder Scope (Item 1) by loosening the thumbscrews and sliding it onto the scope. Secure the Ring Mount on the cylindrical surface of the scope approximately 3 inches from the larger (Objective) end that is opposite the eyepiece as shown in Figure 1. After positioning, tighten the thumbscrews with a flat head screwdriver from your Tool Kit.
3. Type/print on Item 4 the following identification information, characters should be approximately 10 to 11 point font.

Diopter Scope Assembly  
80063-A3279605  
6650-01-151-4217  
[Your DODAAC]

4. Place the newly created ID label approximately 4 1/2 inches from the Objective end of the Finder Scope as shown in Figure 1.

**SUPPLEMENTAL INFORMATION TO GEN-05-ASAM-02**  
**Updated Information on Night Vision Devices (NVD)**

5. Cover the label with clear adhesive tape, a coat of clear varnish, or a coat of clear nail polish. Apply the tape, varnish, or polish in a manner to extend beyond the label edges. Allow the varnish or polish to dry thoroughly before using the Diopter Scope Assembly.

**Instructions for Installing the Diopter Scope Assembly on to the 5003230 Collimation Attachment, 5855-01-151-4216, for Secure Shipping and Storage inside the TS3895A/UV Test Set, 6625-01-301-6894.**

Use the Wing Screw (Item 3) to secure the Diopter Scope Assembly to the Collimation Attachment through the main mounting hole that was used by the discontinued PN 5003246 Diopter Scope Assembly, NSN 6650-01-151-4217. The scope will be mounted on the inner side of the Attachment with the white cylindrical end (Objective) facing the Attachment's top. Once mounted, the Ring Mount should be butted firmly to the bottom of the slot from which the mounting hole protrudes. (See Figure 2 for mounting orientation).

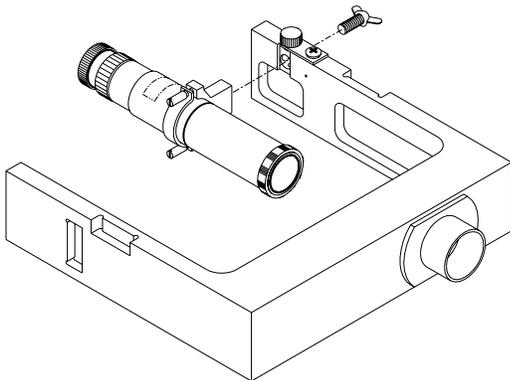


Figure 2: Shipping and Storage Mounting Orientation

2. Snap on the Lens Caps, which are part of Item 1, to protect the lenses from dust, sand and moisture.
3. Place the Collimation Attachment onto the Test Set faceplate in accordance with TM 11-5855-264-14.

**Important information before using the new Diopter Scope Assembly, 6650-01-151-4217:**

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.....NOTE.....

....The new Diopter Scope Assembly must have the

**SUPPLEMENTAL INFORMATION TO GEN-05-ASAM-02**  
**Updated Information on Night Vision Devices (NVD)**

....infinity focus set by each individual user  
....prior to use with the TS3895A/UV Test Set.

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Since eyesight varies from person to person, prior to using the PN A3279605 Diopter Scope Assembly the infinity focus position must be set and locked for the individual user. To do so, loosen the eyepiece focus retaining ring (silver band). In daylight, observe objects with fine detail at distances of 500 meters or greater; note the image will be inverted. Rotate the black eyepiece focus knob counter clockwise until the distant image and the cross hairs slightly blur. Slowly rotate the black eyepiece focus knob clockwise until you obtain a clear cross hair and image. While maintaining the clear cross hair and image, tighten back down the eyepiece focus retaining ring (silver band) to secure the eyepiece in your personal position.

After completing all of the instructions herein, follow the procedures already stated in the appropriate TM for Diopter Scope Assembly use.

**SUPPLEMENTAL INFORMATION TO GEN-05-ASAM-02**  
**Updated Information on Night Vision Devices (NVD)**

**MONOCULAR HOUSING ASSEMBLY VACUUM LEAK REPAIR**

The monocular housing assemblies attach to the PAS with threaded studs connected by a self-locking nut. Electrical connection is established through small wires that are routed from the monocular housings and are soldered onto the flex circuit board inside the PAS.

If a vacuum leak is detected where the wires exit the monocular housing during the purge procedure, accomplish the following repair procedure.

**Initial Setup**

Facility - Clean station in the electronic repair service area.

Tools -

- 0.035-inch socket-head key
- Acid brush
- Screwdriver, flat-tipped, jeweler's (0.100-inch wide)
- Tweezers
- Wrench, 1/4-inch open end, NSN 5120-01-368-1910, modified

Equipment -

- Purge device or commercial equivalent
- Fire Control Purge Kit
- Purge Adapter or commercial equivalent
- Quick Disconnect (optional, commercially available)

Materials -

- Nitrogen, Compression type: water pumped
- Composition and percentage: 99.5% nitrogen by volume or commercial equivalent
- Adhesive

**Procedure**

1. Remove the monocular housing assembly from the pivot and adjustment shelf IAW TM 11-5855-263-23&P or TM 11-5855-313-23&P.

.....**NOTE**.....

Some filler may settle to the bottom of the primer and adhesive containers if left standing for several weeks. To ensure a uniform product mix, the material in each container should be thoroughly mixed prior to use.

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**SUPPLEMENTAL INFORMATION TO GEN-05-ASAM-02**  
**Updated Information on Night Vision Devices (NVD)**

2. Apply a small amount of primer to the cavity where each wire exits the monocular housing assembly (Figure 1). Allow primer to cure for at least 1 hour at 50 percent relative humidity before applying adhesive.

3. Apply a sufficient amount of adhesive to cover the bottom of the cavity where each wire exits the monocular housing assembly (Figure 1). Prevent adhesive from spreading beyond cavity area.

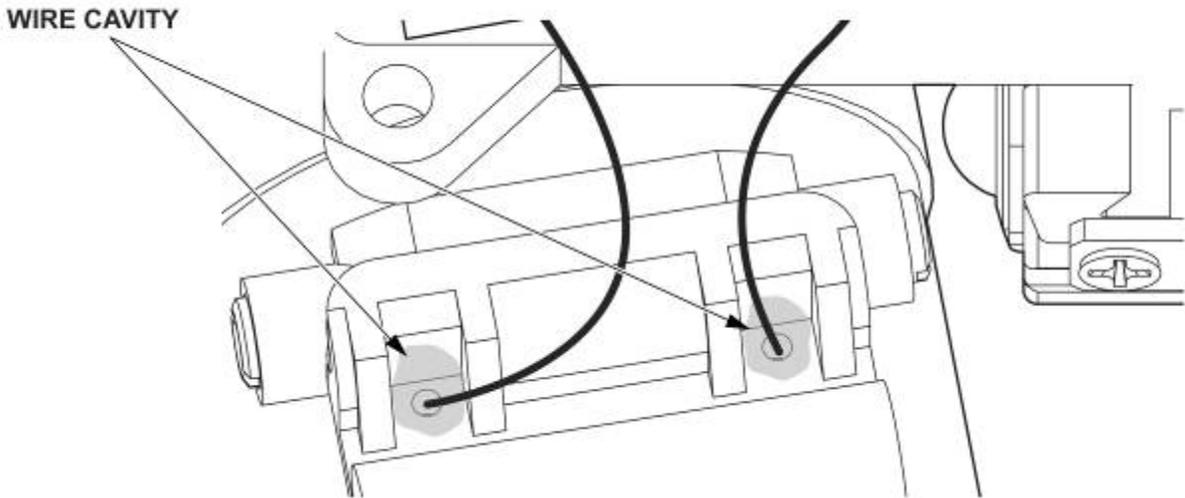


Figure 1. Monocular Housing Assembly Wire Cavity Location

.....**NOTE**.....  
It is important to let the adhesive cure for 6 or 9 hours prior to performing any further maintenance actions.

4. Install the monocular housing assembly on the pivot and adjustment shelf IAW TM 11-5855-263-23&P or TM 11-5855-313-23&P.

5. Purge the system as IAW TM 11-5855-263-23&P or TM 11-5855-313-23&P.